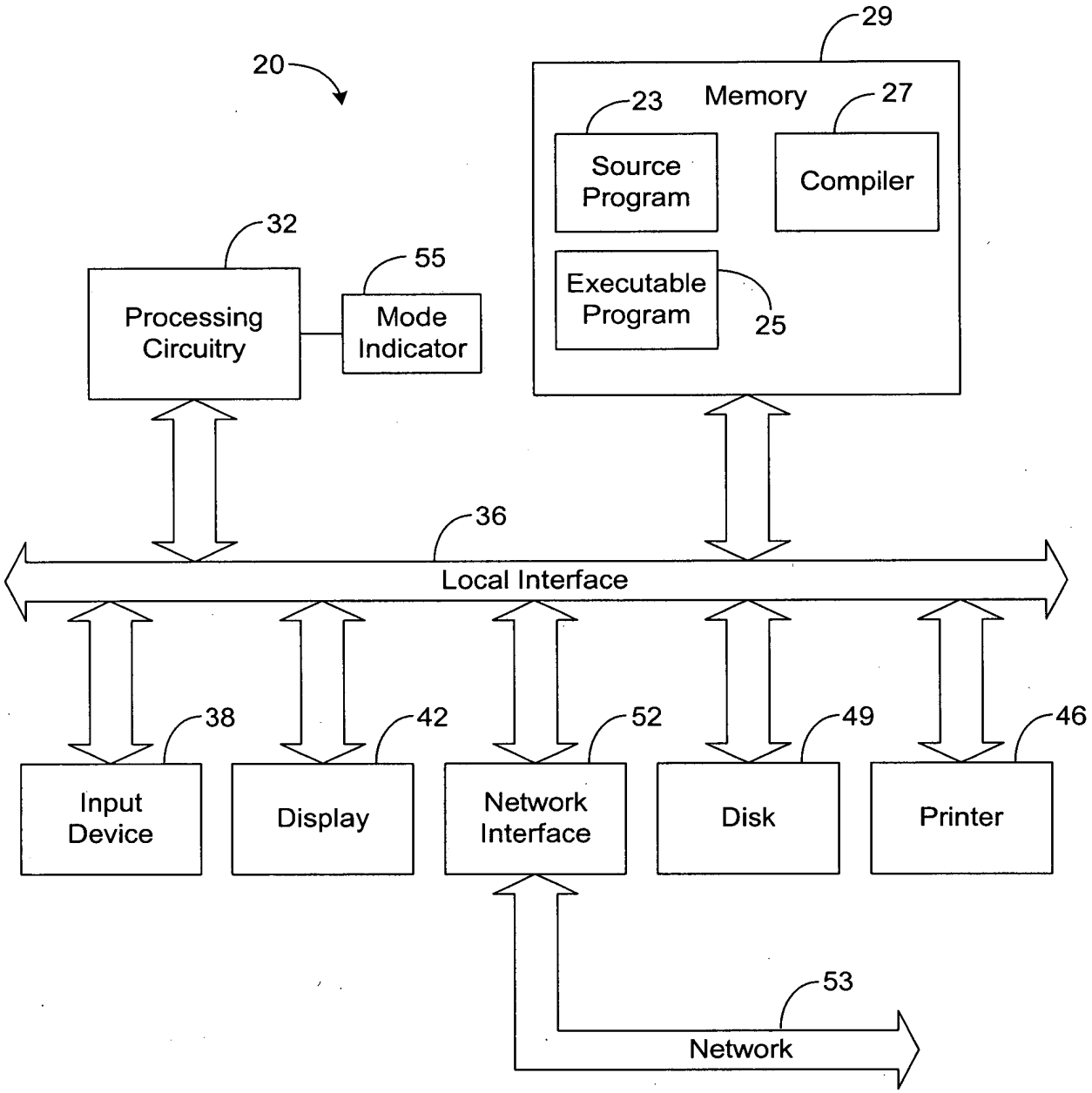
20
29
Memory
23
27
Source Program
Compiler
Executable Program
25
32
55
Processing Circuitry
Mode Indicator
36
Local Interface
38
42
52
49
46
Input Device
Display
Network Interface
Disk
Printer
53
Network

FIG. 1

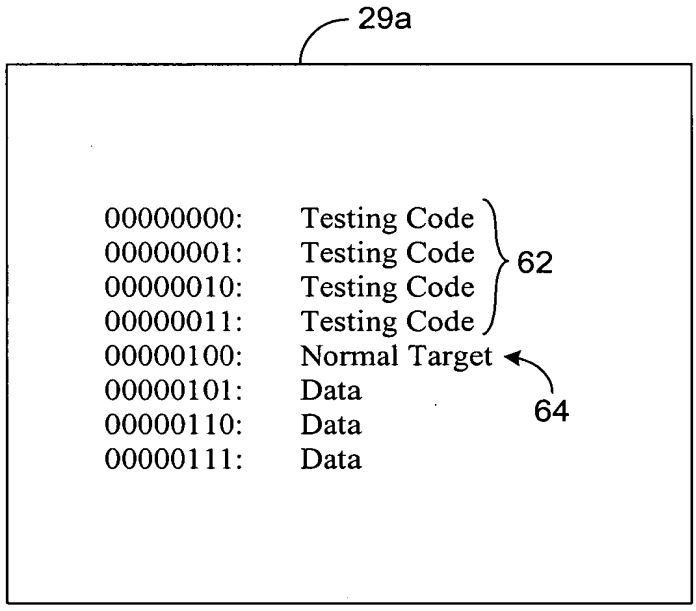
29a
00000000: Testing Code
00000001: Testing Code
00000010: Testing Code
00000011: Testing Code
62
00000100: Normal Target
00000101: Data
00000110: Data
00000111: Data
64

FIG. 2

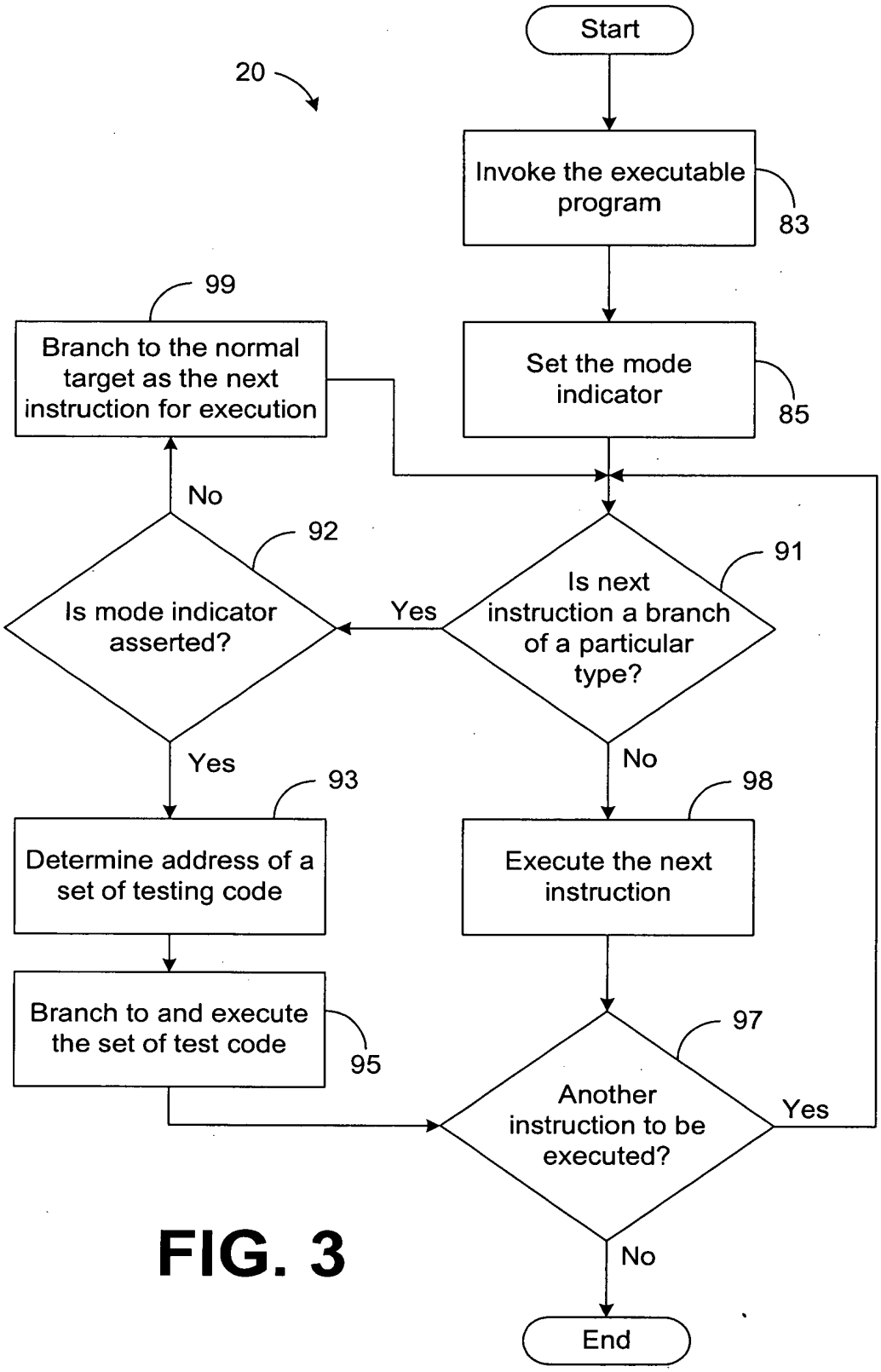
20
Start
Invoke the executable program
83
Set the mode indicator
85
Is next instruction a branch of a particular type?
91
Yes
Is mode indicator asserted?
92
No
Branch to the normal target as the next instruction for execution
99
Yes
Determine address of a set of testing code
93
Branch to and execute the set of test code
95
No
Execute the next instruction
98
Another instruction to be executed?
97
Yes
No
End

FIG. 3